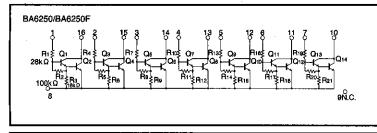
# 7-channel Darlington transistor array BA6250/BA6250F/BA6251/BA6251F

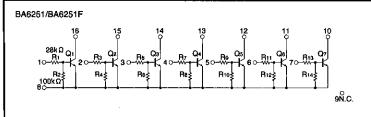
The BA6250, BA6250F, BA6251, and BA6251F are 7-channel transistor arrays particularly suitable for interfaces between a microcomputer in a VTR and the various ICs, or between one IC and another, and for low current drives such as LEDs.

#### Features

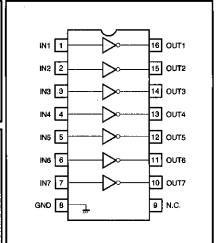
- 1) High withstanding output voltage of 30V (max.).
- 2) Output current of 20mA max. ( $V_{IN} \ge 3V$ ).

#### Internal circuit configuration diagram





#### Block diagram



#### ●Absolute maximum ratings (Ta=25°C)

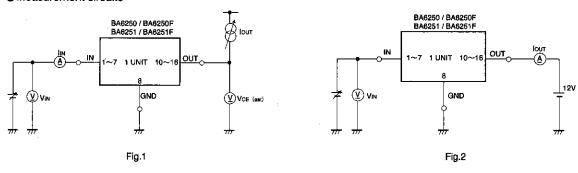
Parameter	Symbol	Limits	Unit
Power supply voltage	Vceo	30	V
Power dissipation	Pd	500 *	mW
Operating temperature	Topr	<b>−25~75</b>	ొ
Storage temperature	Tstg	<b>−55</b> ~125	Ĉ
Input voltage	Vin	30	V
Output current	IO Max.	30	mA

<sup>\*</sup> Reduced by 5mW for each increase in Ta of 1°C over 25°C.

# ●Electrical characteristics (unless otherwise noted, Ta=25°C, Vcc=12V)

Parameter	Symbol	Туре	Min.	Тур.	Max.	Unit	Conditions	Measurement Circuit
Output power supply voltage range	Vo	BA6250 / BA6250F		12	28	٧	_	Fig. 1
		BA6251 / BA6251F	_	12	28		_	
"H" input voltage	Vıн	BA6250 / BA6250F	3		_	٧	Ιουτ=20mA	Fig. 1
		BA6251 / BA6251F	2		_		loυτ≧1mA	
"L" input voltage	VIL	BA6250 / BA6250F	-	_	0.6	>	Ιουτ <b>≦10</b> <i>μ</i> Α	Fig. 2
		BA6251 / BA6251F	_	_	0.3		loυт≦10 <i>μ</i> A	
Output voltage	Vout	BA6250 / BA6250F	_	_	1.4	v	Ιουτ=20mA, V <sub>IN</sub> =12V	Fig. 1
Output saturation voltage	VCE (sat)	BA6251 / BA6251F	_	0.3	_		Iουτ=10mA, V <sub>IN</sub> =12V	
Output current	Іоит	BA6250 / BA6250F	_	-	20.	mA	Vin≧3V	Fig. 1
		BA6251 / BA6251F	_	-	20		Vın≧12V	
Input current	lin	BA6250 / BA6250F	_	_	0.6	mA	Ιουτ=10mA, Vin=12V	Fig. 1
		BA6251 / BA6251F	_	_	0.6		Iout=10mA, V <sub>IN</sub> =12V	
Output leakage current	t <sub>i</sub> .	BA6250 / BA6250F	_	_	1	μΑ	Vcc=28V, VIN=0V	_

# Measurement circuits



# External dimensions (Units: mm)

